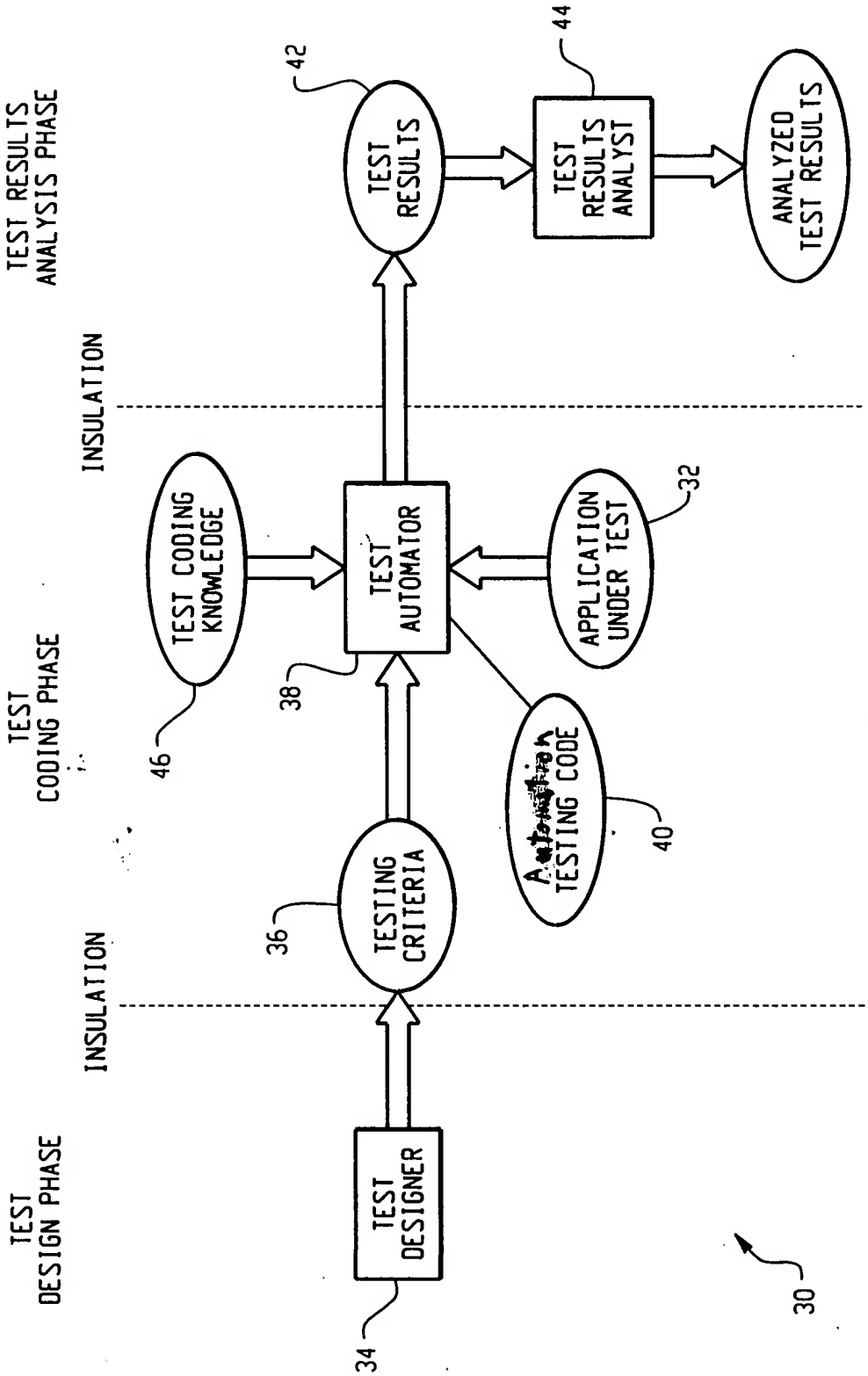
TEST DESIGN PHASE
INSULATION
TEST CODING PHASE
INSULATION
TEST RESULTS ANALYSIS PHASE
TEST DESIGNER
34
TESTING CRITERIA
36
TEST AUTOMATOR
38
TEST CODING KNOWLEDGE
46
APPLICATION UNDER TEST
32
TESTING CODE
40
TEST RESULTS
42
TEST RESULTS ANALYST
44
ANALYZED TEST RESULTS
30

Fig. 1

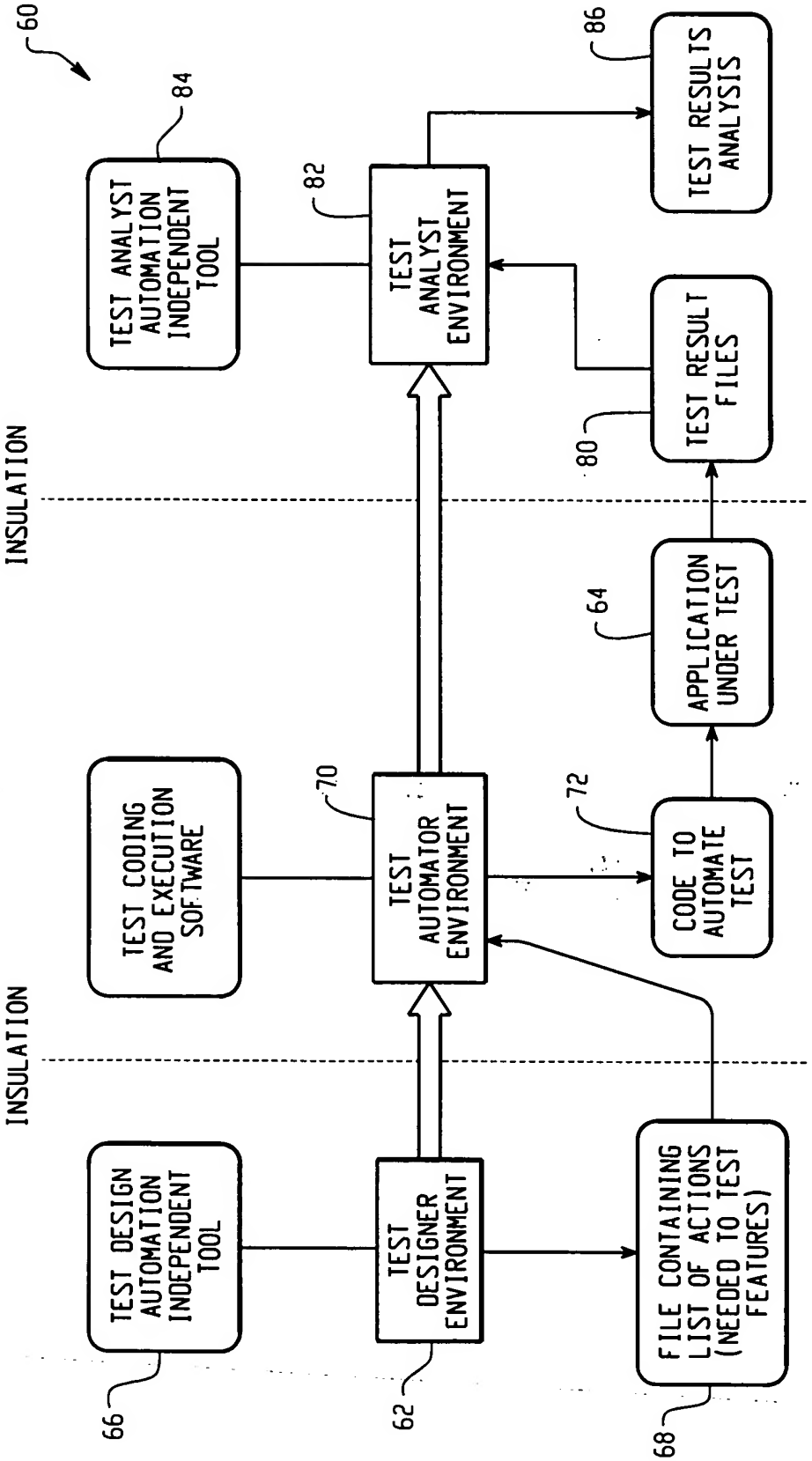
60
TEST DESIGN AUTOMATION INDEPENDENT TOOL
66
TEST DESIGNER ENVIRONMENT
62
FILE CONTAINING LIST OF ACTIONS (NEEDED TO TEST FEATURES)
68
INSULATION
TEST CODING AND EXECUTION SOFTWARE
TEST AUTOMATOR ENVIRONMENT
70
CODE TO AUTOMATE TEST
72
APPLICATION UNDER TEST
64
INSULATION
TEST RESULT FILES
80
TEST ANALYST AUTOMATION INDEPENDENT TOOL
84
TEST ANALYST ENVIRONMENT
82
TEST RESULTS ANALYSIS
86

Fig. 2

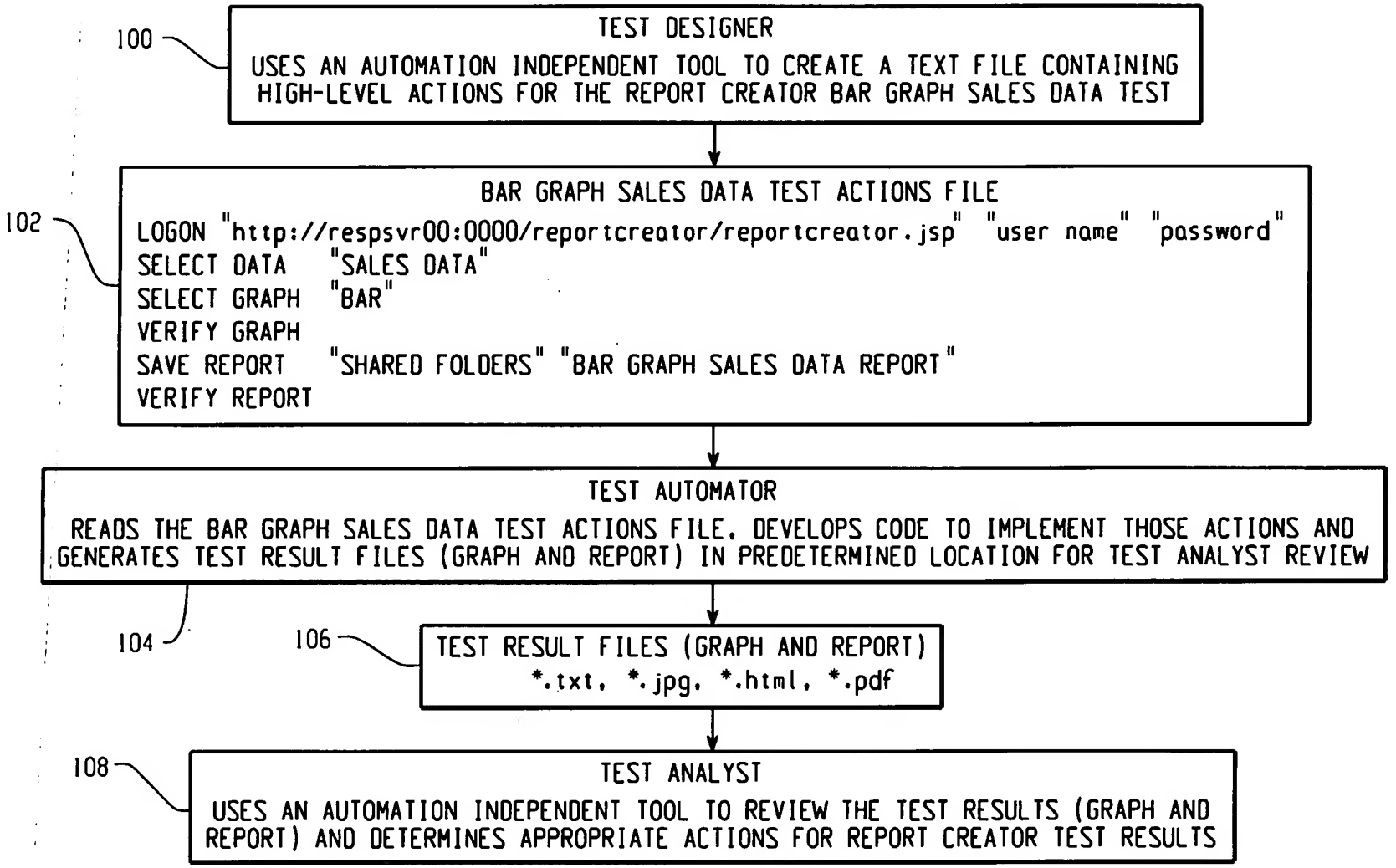
100
TEST DESIGNER
USES AN AUTOMATION INDEPENDENT TOOL TO CREATE A TEXT FILE CONTAINING HIGH-LEVEL ACTIONS FOR THE REPORT CREATOR BAR GRAPH SALES DATA TEST
102
BAR GRAPH SALES DATA TEST ACTIONS FILE
LOGON "http://respsvr00:0000/reportcreator/reportcreator.jsp" "user name" "password"
SELECT DATA "SALES DATA"
SELECT GRAPH "BAR"
VERIFY GRAPH
SAVE REPORT "SHARED FOLDERS" "BAR GRAPH SALES DATA REPORT"
VERIFY REPORT
TEST AUTOMATOR
READS THE BAR GRAPH SALES DATA TEST ACTIONS FILE, DEVELOPS CODE TO IMPLEMENT THOSE ACTIONS AND GENERATES TEST RESULT FILES (GRAPH AND REPORT) IN PREDETERMINED LOCATION FOR TEST ANALYST REVIEW
104
106
TEST RESULT FILES (GRAPH AND REPORT)
*.txt, *.jpg, *.html, *.pdf
108
TEST ANALYST
USES AN AUTOMATION INDEPENDENT TOOL TO REVIEW THE TEST RESULTS (GRAPH AND REPORT) AND DETERMINES APPROPRIATE ACTIONS FOR REPORT CREATOR TEST RESULTS

Fig. 3

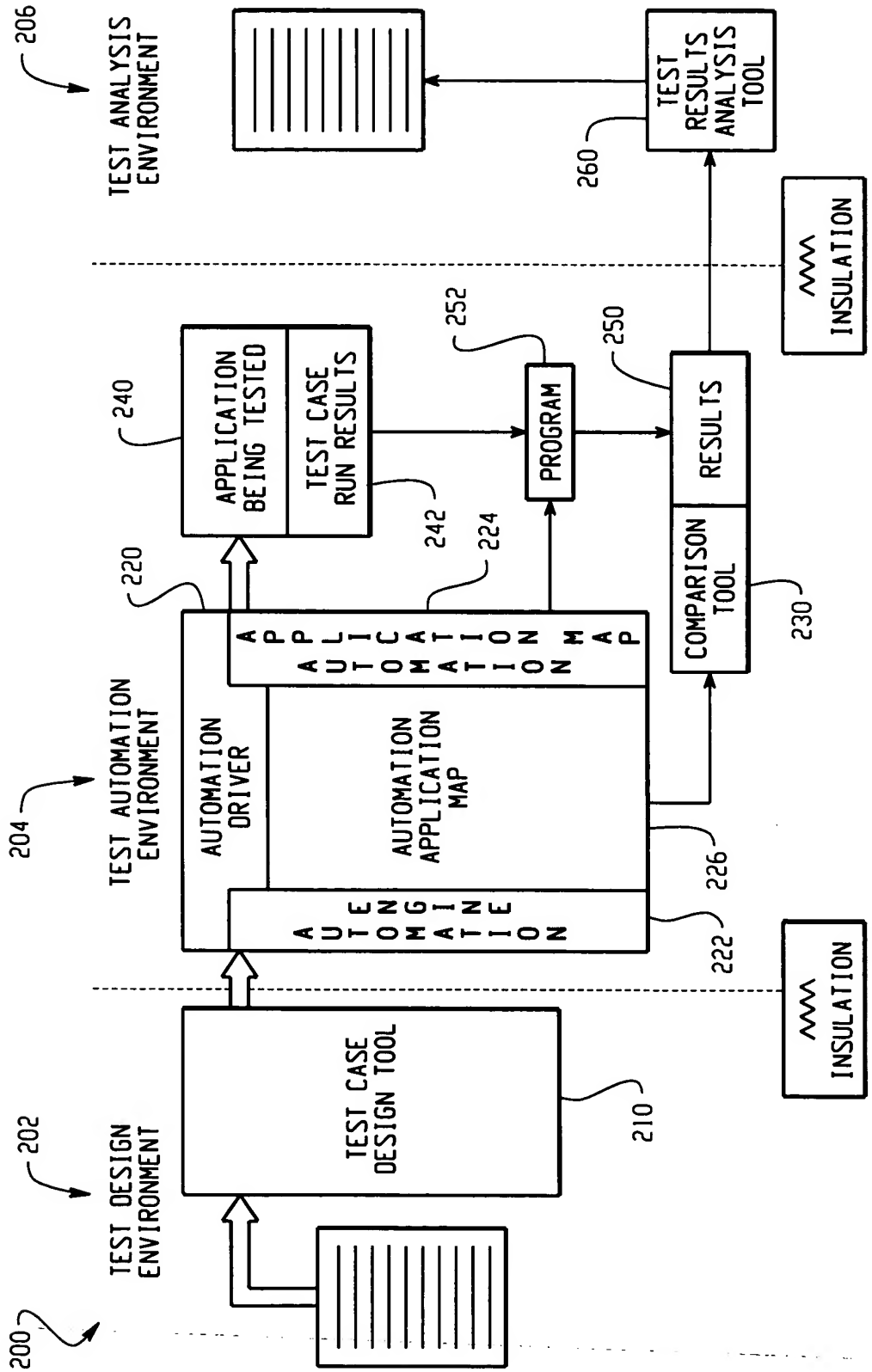
200
TEST DESIGN ENVIRONMENT
202
TEST CASE DESIGN TOOL
210
TEST AUTOMATION ENVIRONMENT
204
AUTOMATION DRIVER
AUTOMATION APPLICATION MAP
AUTOMATION
APPLICATION MAP
220
222
224
226
APPLICATION BEING TESTED
TEST CASE RUN RESULTS
240
242
PROGRAM
252
RESULTS
250
COMPARISON TOOL
230
TEST RESULTS ANALYSIS TOOL
260
TEST ANALYSIS ENVIRONMENT
206
INSULATION
INSULATION

Fig. 4

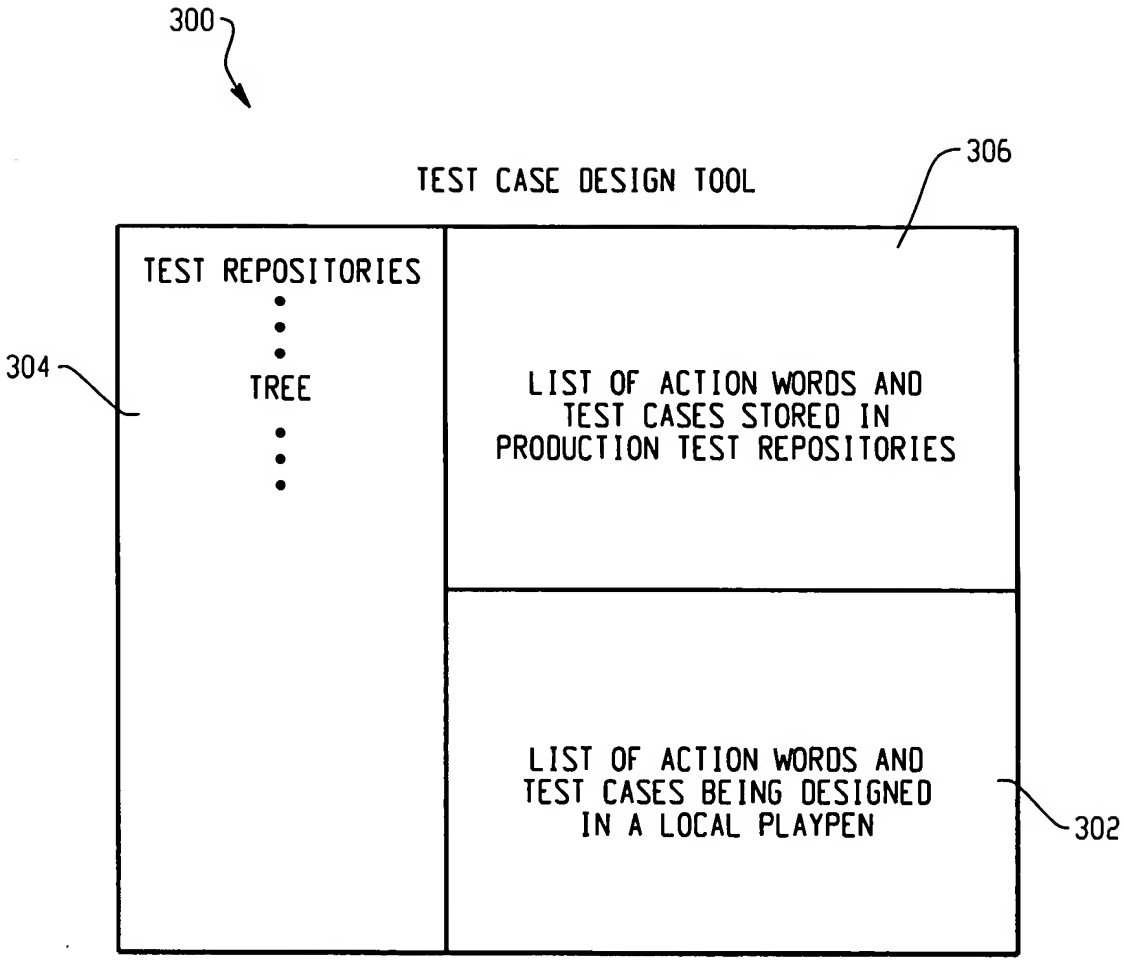
300
TEST CASE DESIGN TOOL
306
TEST REPOSITORIES
304
TREE
LIST OF ACTION WORDS AND TEST CASES STORED IN PRODUCTION TEST REPOSITORIES
LIST OF ACTION WORDS AND TEST CASES BEING DESIGNED IN A LOCAL PLAYPEN
302

Fig. 5

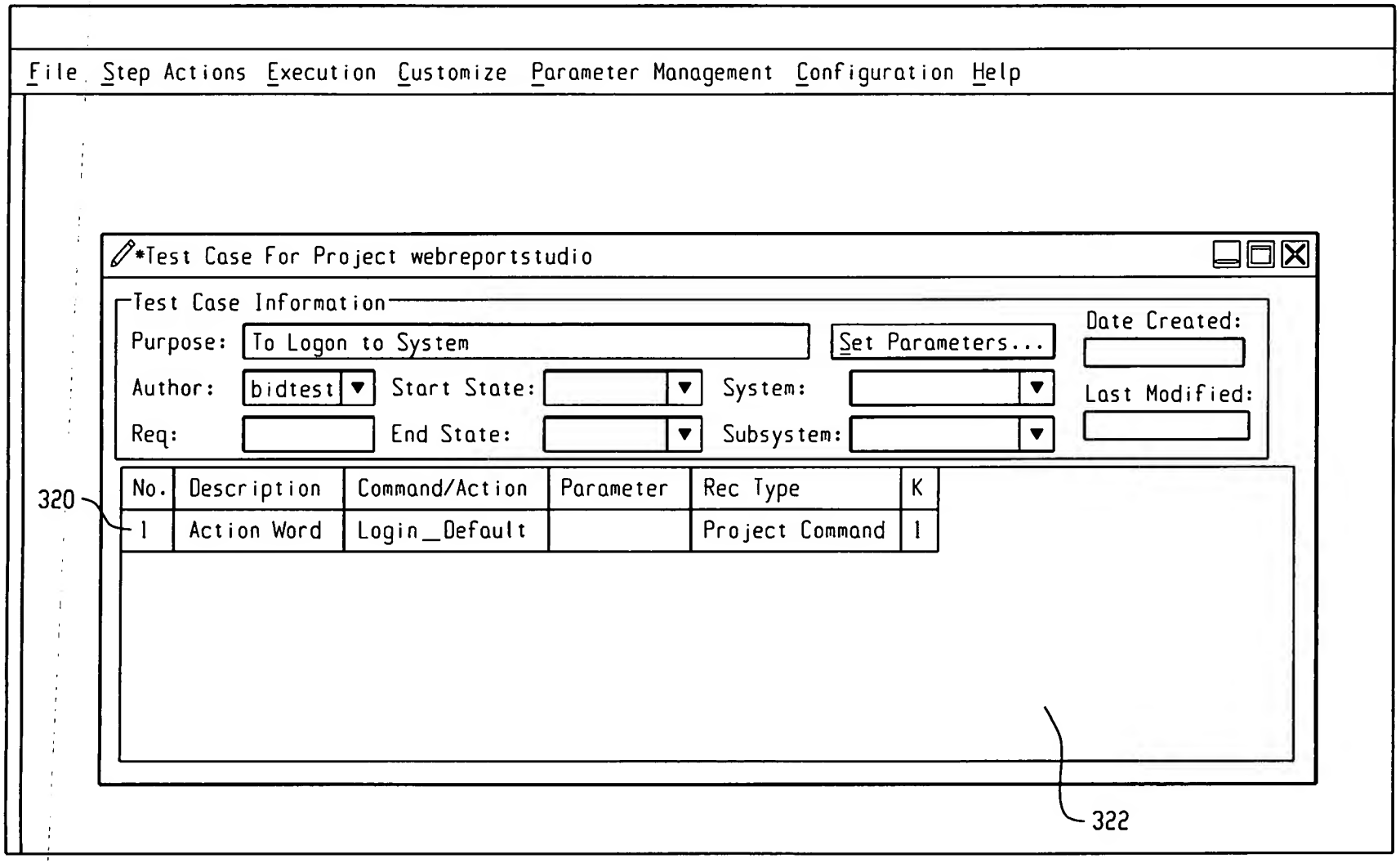
File Step Actions Execution Customize Parameter Management Configuration Help
*Test Case For Project webreportstudio
Test Case Information
Purpose: To Logon to System
Set Parameters...
Date Created:
Author: bidtest
Start State:
System:
Last Modified:
Req:
End State:
Subsystem:
No. Description Command/Action Parameter Rec Type K
1 Action Word Login_Default Project Command 1
320
322

Fig. 6

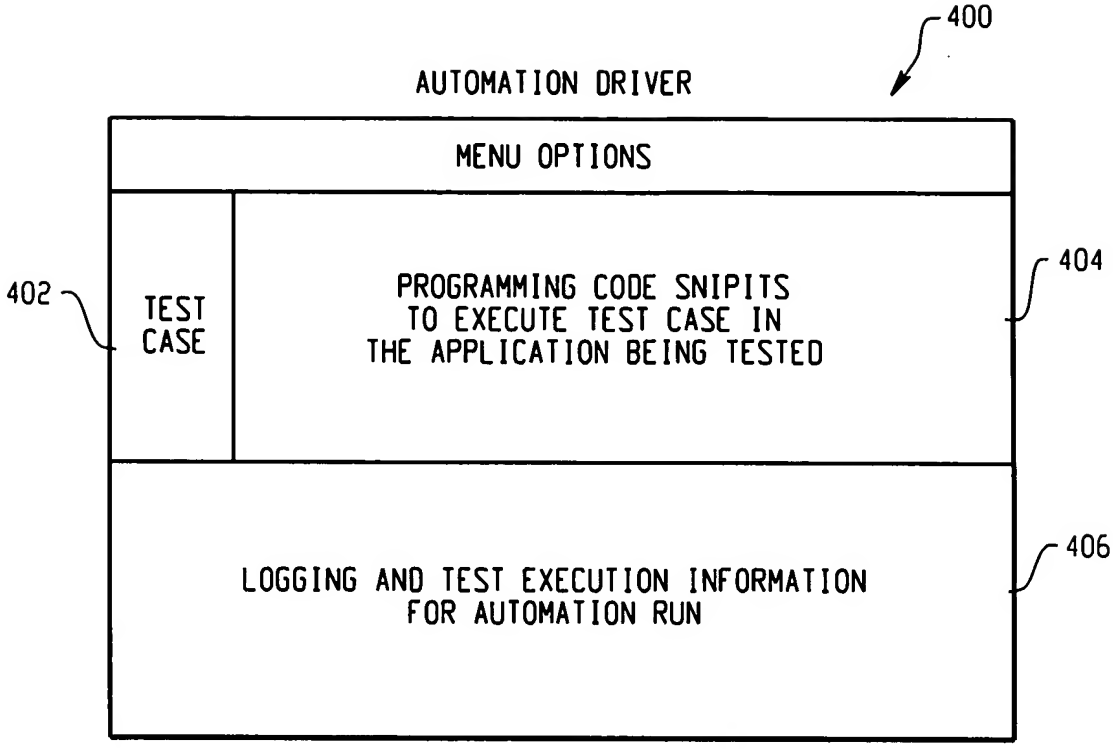

Fig. 7

AUTOMATION ENGINE CODE EXAMPLE

440

```
Login.SDD - Notepad
C  SetApplicationMap     EG30.MAP
C  SetVariableValues     ^passwd=^password     ^username=^UserID
T  LogonScreenWindow     UserNameEditBox SetTextValue  ^username
T  LogonScreenWindow     PasswordEditBox SetTextValue  ^passwd
T  LogonScreenWindow     LogonPushButton click
C  WaitForGUI      WRS   Logoff 60
```

Fig. 9

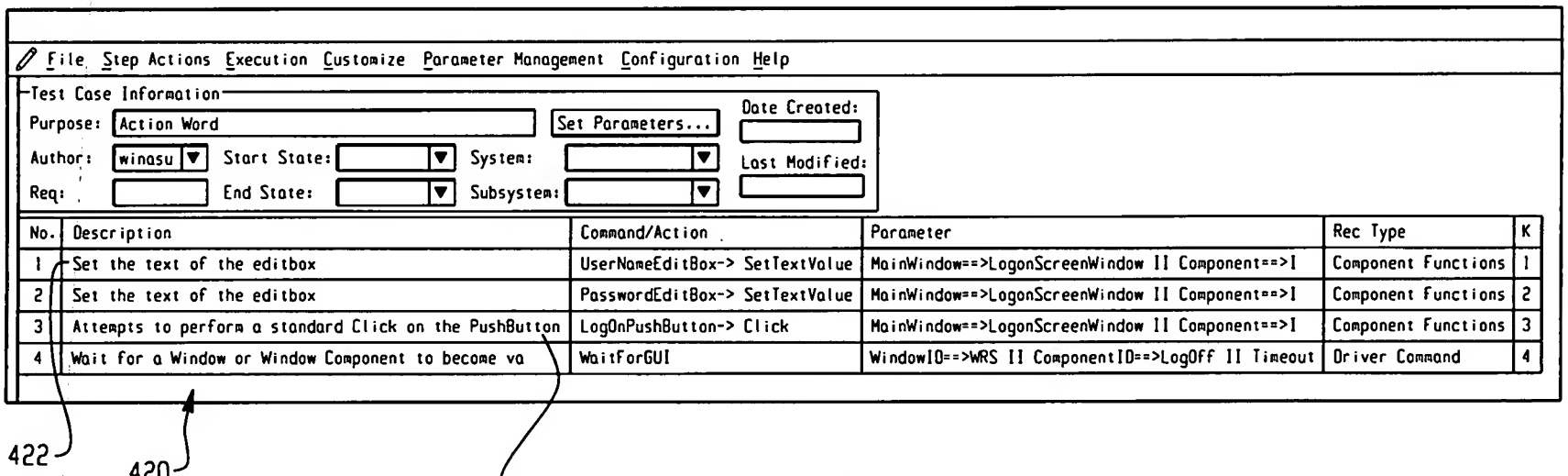
File Step Actions Execution Customize Parameter Management Configuration Help
Test Case Information
Purpose: Action Word
Set Parameters...
Date Created:
Author: winasu
Start State:
System:
Last Modified:
Req:
End State:
Subsystem:
No. | Description | Command/Action | Parameter | Rec Type | K
1 | Set the text of the editbox | UserNameEditBox-> SetTextValue | MainWindow==>LogonScreenWindow II Component==>1 | Component Functions | 1
2 | Set the text of the editbox | PasswordEditBox-> SetTextValue | MainWindow==>LogonScreenWindow II Component==>1 | Component Functions | 2
3 | Attempts to perform a standard Click on the PushButton | LogOnPushButton-> Click | MainWindow==>LogonScreenWindow II Component==>1 | Component Functions | 3
4 | Wait for a Window or Window Component to become va | WaitForGUI | WindowID==>WRS II ComponentID==>LogOff II Timeout | Driver Command | 4
422
420
424

Fig. 8

AUTOMATION APPLICATION
MAP EXAMPLE

```
3
3
3
3
3
3
4
4
4
4
4
4
4
4
```

```
(LoginWindow)
LoginWindow= "Type=Window:Caption=(Log*)"
JavaWindow2= "Type=JavaWindow:JavaCaption=Login:\:Typ
JavaPanel1= "Type=JavaWindow:JavaCaption=Login:\:Type
JavaPanel2= "Type=JavaWindow:JavaCaption=Login:\:Type
JavaPanel3= "Type=JavaWindow:JavaCaption=Login:\:Type
JavaPanel4= "Type=JavaWindow:JavaCaption=Login:\:Type
Username:= "Type=JavaWindow:JavaCaption=Login:\:Type=
Password:= "Type=JavaWindow:JavaCaption=Login:\:Type=
Save= "Type=JavaWindow:JavaCaption=Login:\:Type=JavaP
OK= "Type=JavaWindow:JavaCaption=Login:\:Type=JavaPan
Cancel= "Type=JavaWindow:JavaCaption=Login:\:Type=Jav
Help= "Type=JavaWindow:JavaCaption=Login:\:Type=JavaP
Machine:= "Type=JavaWindow:JavaCaption=Login:\:Type=J
```

460

Fig. 10

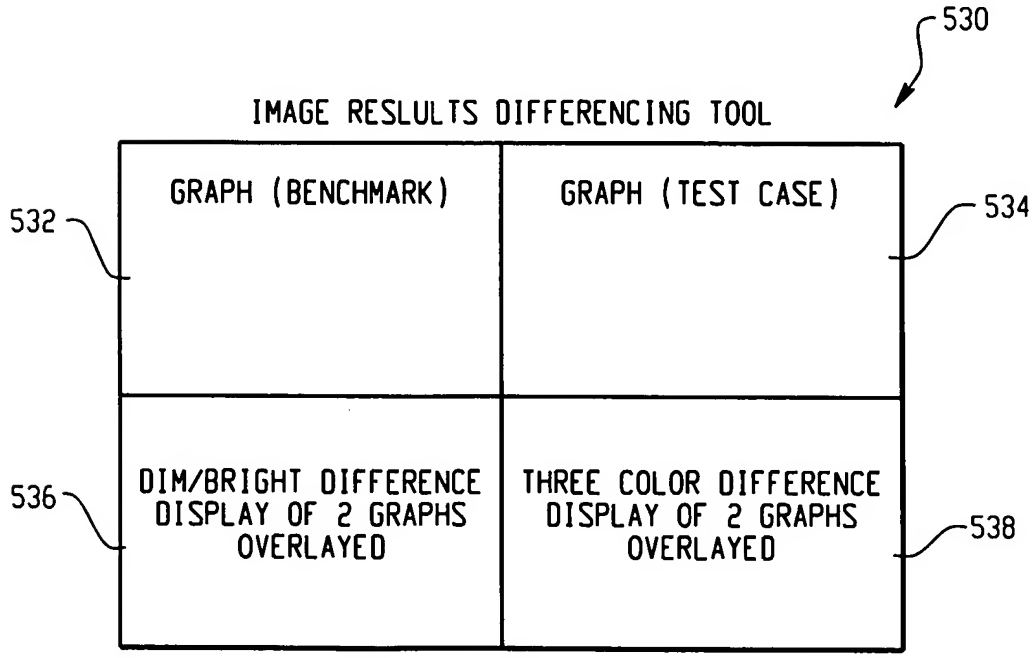

Fig. 12

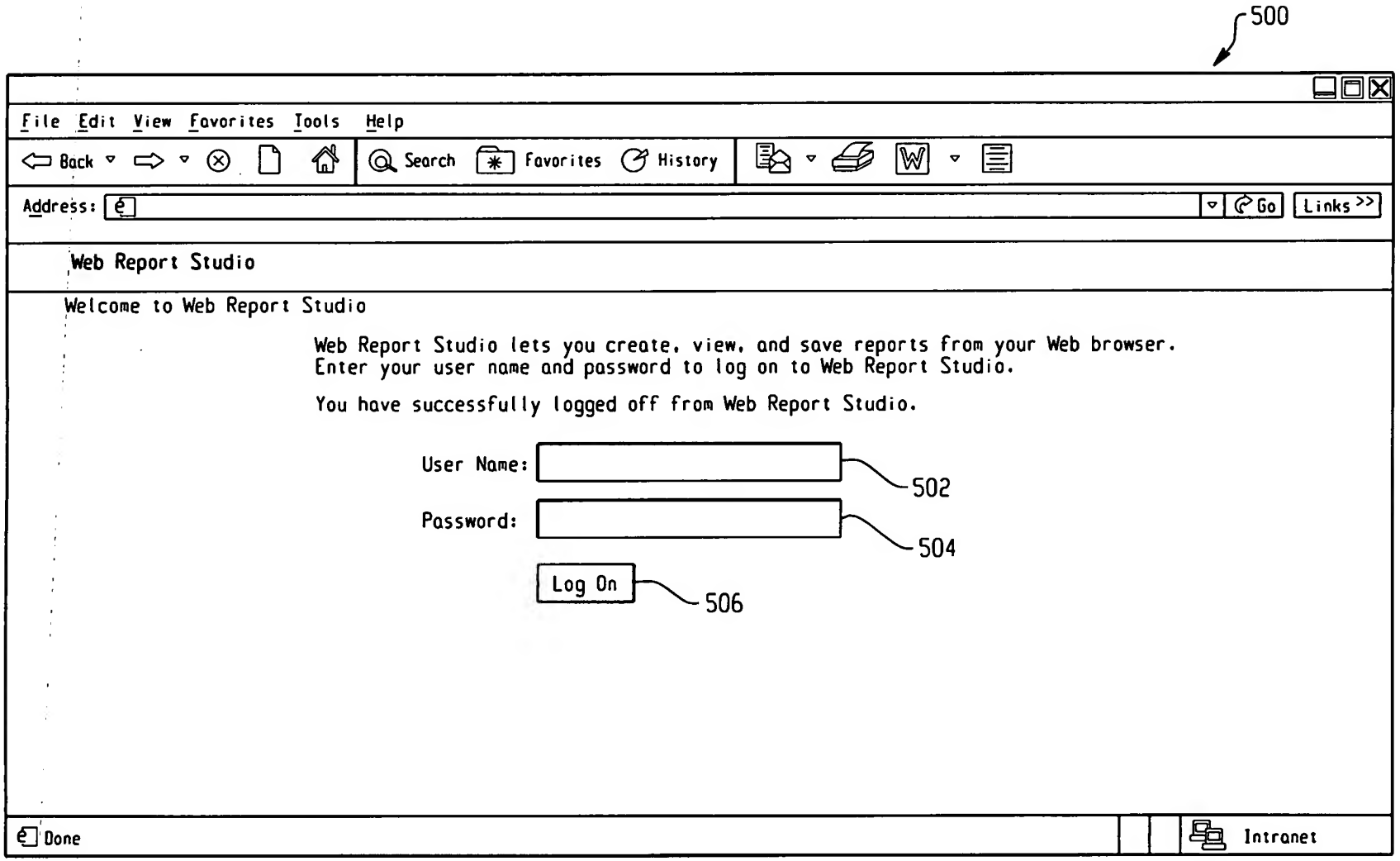
500
File Edit View Favorites Tools Help
Back
Search
Favorites
History
Address:
Go
Links >>
Web Report Studio
Welcome to Web Report Studio
Web Report Studio lets you create, view, and save reports from your Web browser.
Enter your user name and password to log on to Web Report Studio.
You have successfully logged off from Web Report Studio.
User Name:
502
Password:
504
Log On
506
Done
Intranet

Fig. 11

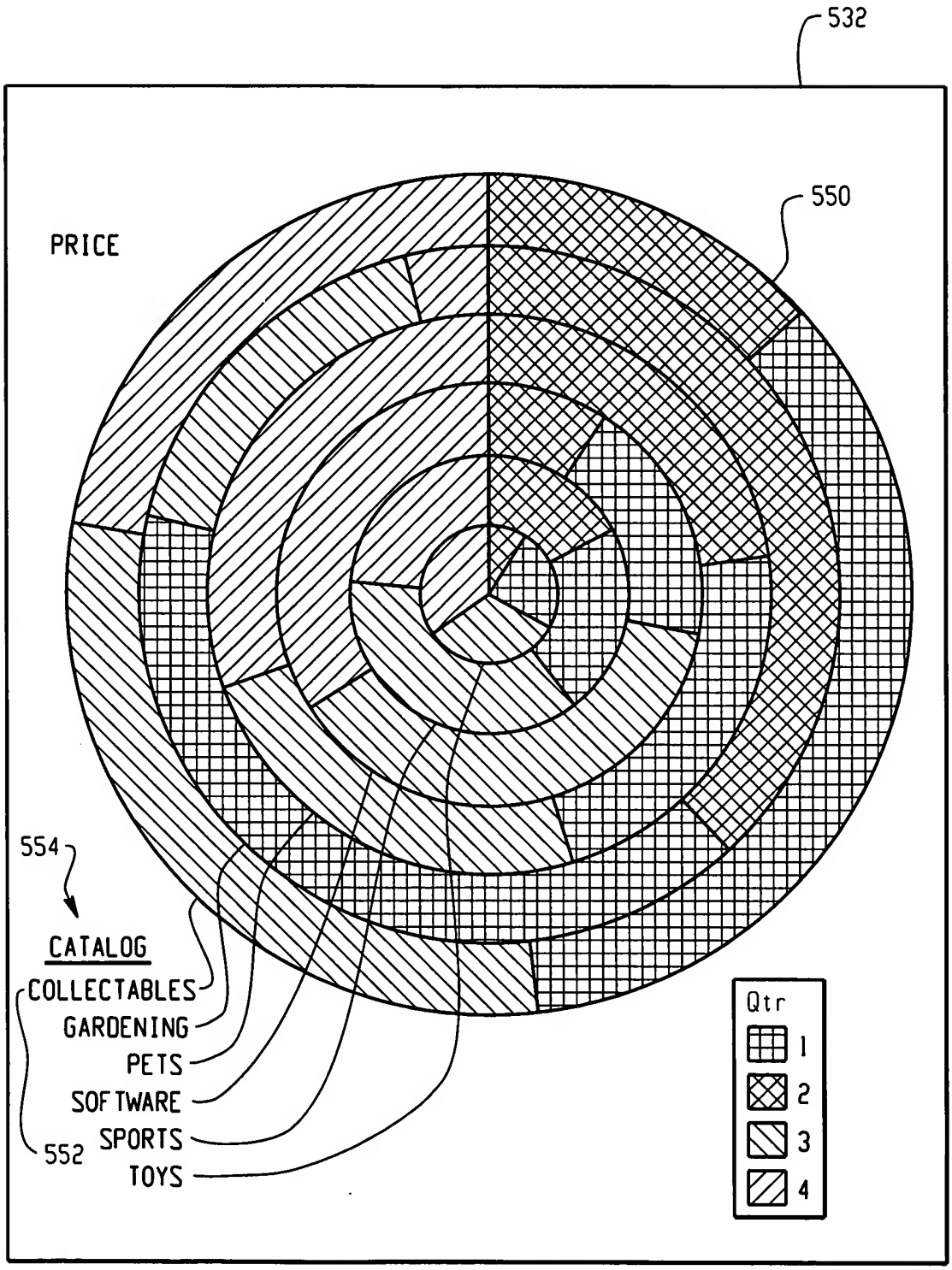
532
550
PRICE
554
CATALOG
COLLECTABLES
GARDENING
PETS
SOFTWARE
SPORTS
TOYS
552
Qtr
1
2
3
4

Fig. 13

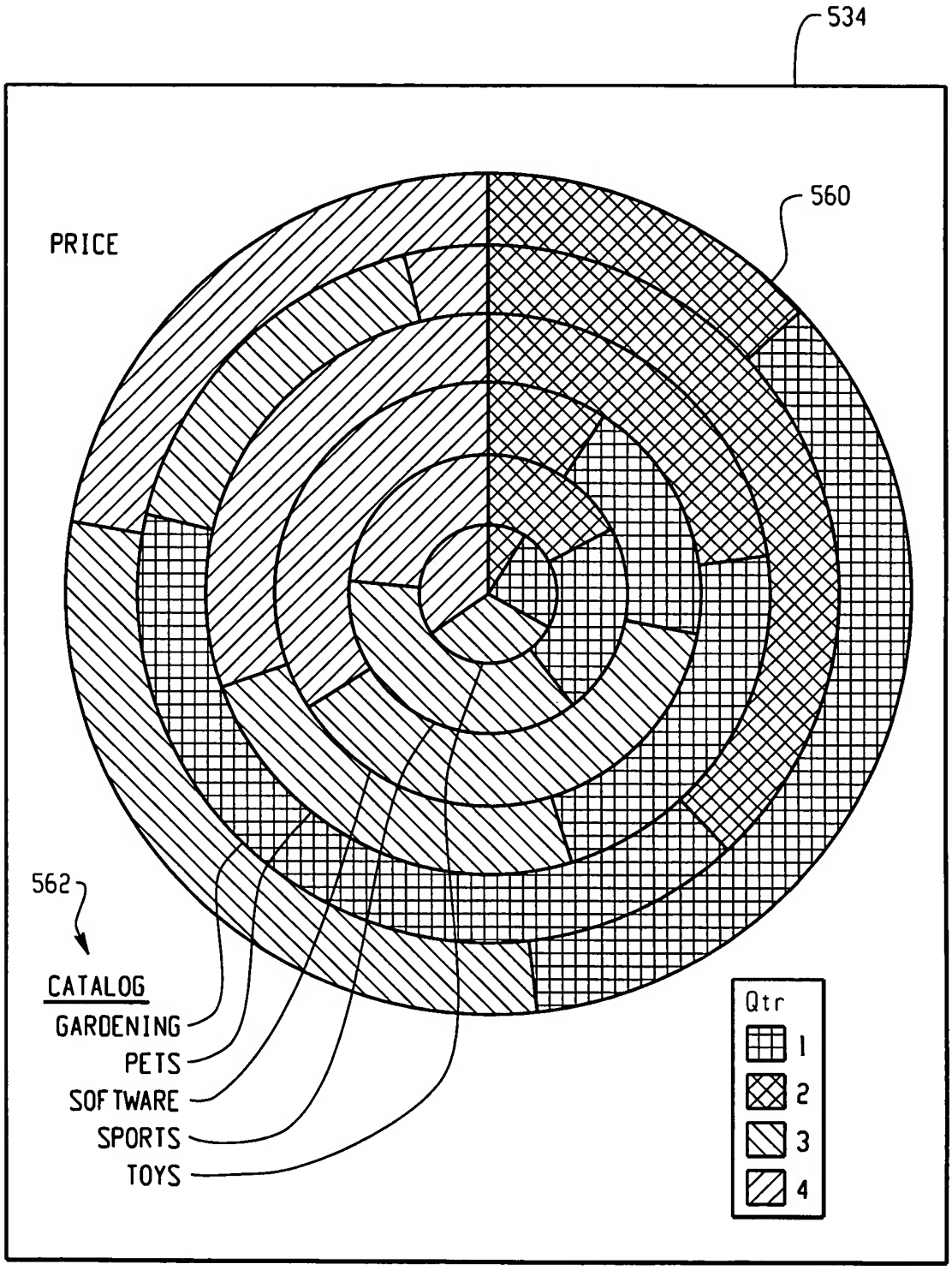
534
560
PRICE
562
CATALOG
GARDENING
PETS
SOFTWARE
SPORTS
TOYS
Qtr
1
2
3
4

Fig. 14

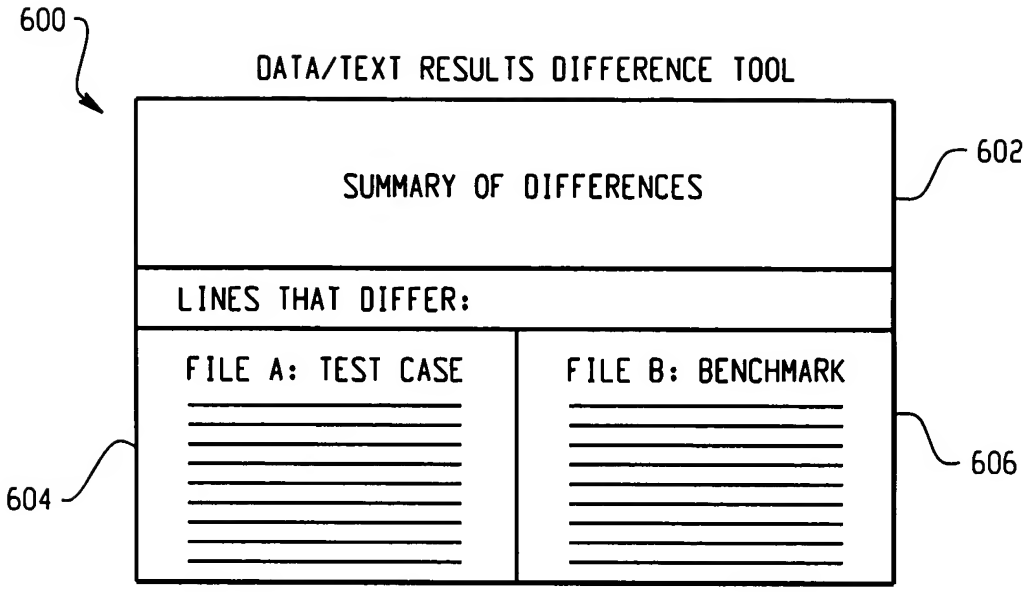
600
DATA/TEXT RESULTS DIFFERENCE TOOL
SUMMARY OF DIFFERENCES
602
LINES THAT DIFFER:
FILE A: TEST CASE
FILE B: BENCHMARK
604
606

Fig. 15

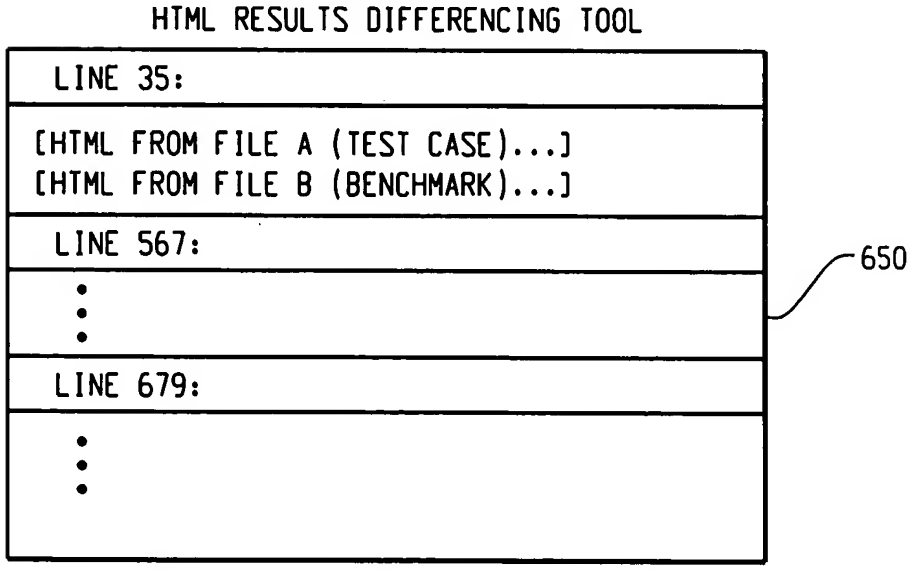
HTML RESULTS DIFFERENCING TOOL
LINE 35:
[HTML FROM FILE A (TEST CASE)...]
[HTML FROM FILE B (BENCHMARK)...]
LINE 567:
LINE 679:
650

Fig. 18

604
LEVEL1 TABLE TITLE
Qtr
REGION
CATALOG
PRICE
COST
1 CANADA GARDENING $579.00 $280.50
1 CANADA PETS $178.00 $65.00
1 CANADA SPORTS $1,856.00 $883.00
1 CANADA TOYS $7.98 $5.55
1 CENTRAL COLLECTIBLES $35.00 $17.00
1 CENTRAL GARDENING $1,974.00 $923.00
1 CENTRAL PETS $294.00 $110.50
1 CENTRAL SOFTWARE $500.78 $400.75
1 CENTRAL SPORTS $1,848.00 $887.00
1 CENTRAL TOYS $151.12 $111.08
1 NORTHEAST COLLECTIBLES $313.00 $160.00
1 NORTHEAST GARDENING $1,786.00 $904.50
1 NORTHEAST PETS $637.00 $291.50
1 NORTHEAST SOFTWARE $634.72 $485.45
1 NORTHEAST SPORTS $4,994.00 $2,263.00
1 NORTHEAST TOYS $353.97 $295.09
620
610

Fig. 16

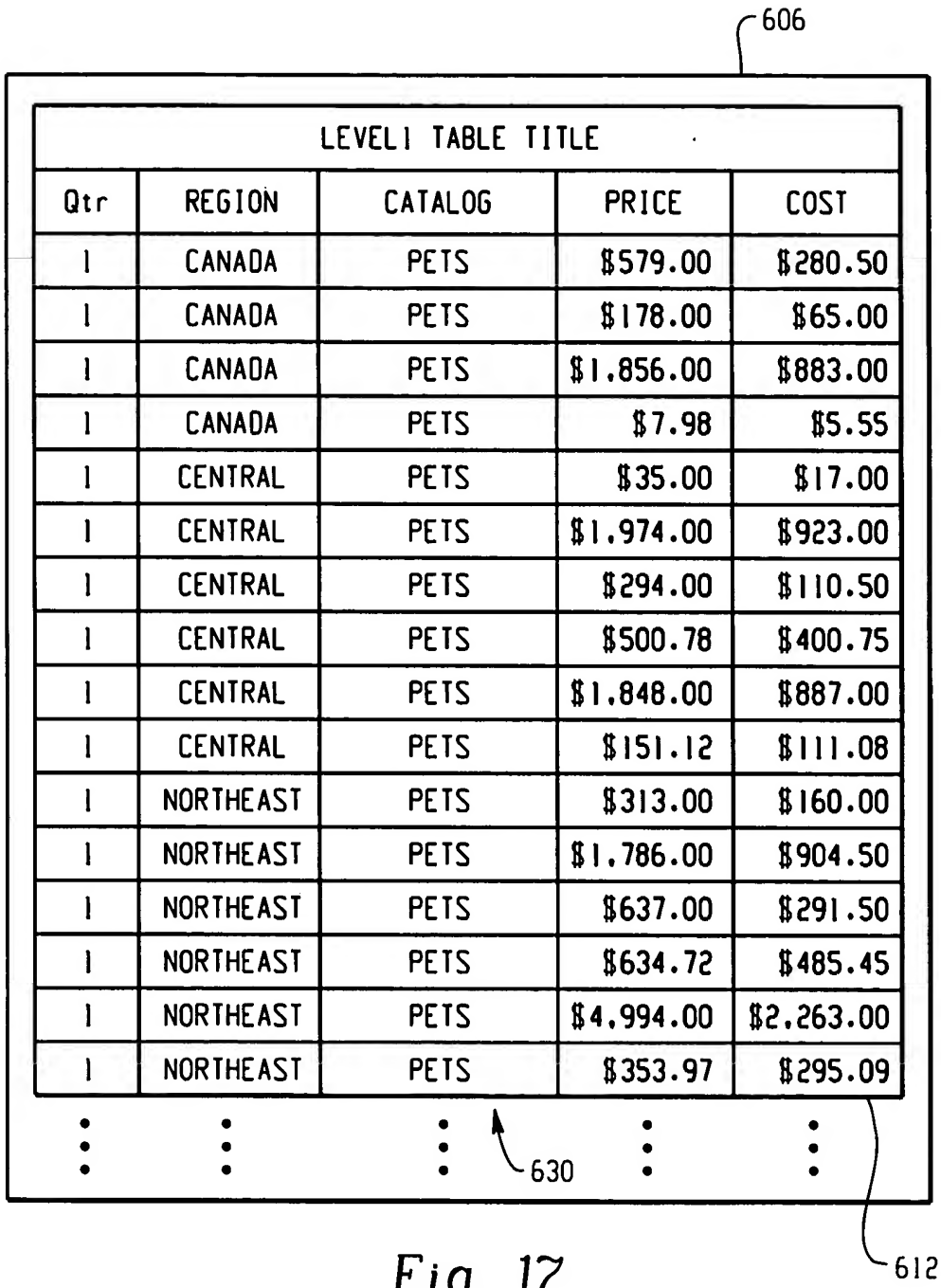
606
LEVEL1 TABLE TITLE
Qtr
REGION
CATALOG
PRICE
COST
1 CANADA PETS $579.00 $280.50
1 CANADA PETS $178.00 $65.00
1 CANADA PETS $1,856.00 $883.00
1 CANADA PETS $7.98 $5.55
1 CENTRAL PETS $35.00 $17.00
1 CENTRAL PETS $1,974.00 $923.00
1 CENTRAL PETS $294.00 $110.50
1 CENTRAL PETS $500.78 $400.75
1 CENTRAL PETS $1,848.00 $887.00
1 CENTRAL PETS $151.12 $111.08
1 NORTHEAST PETS $313.00 $160.00
1 NORTHEAST PETS $1,786.00 $904.50
1 NORTHEAST PETS $637.00 $291.50
1 NORTHEAST PETS $634.72 $485.45
1 NORTHEAST PETS $4,994.00 $2,263.00
1 NORTHEAST PETS $353.97 $295.09
630
612

Fig. 17

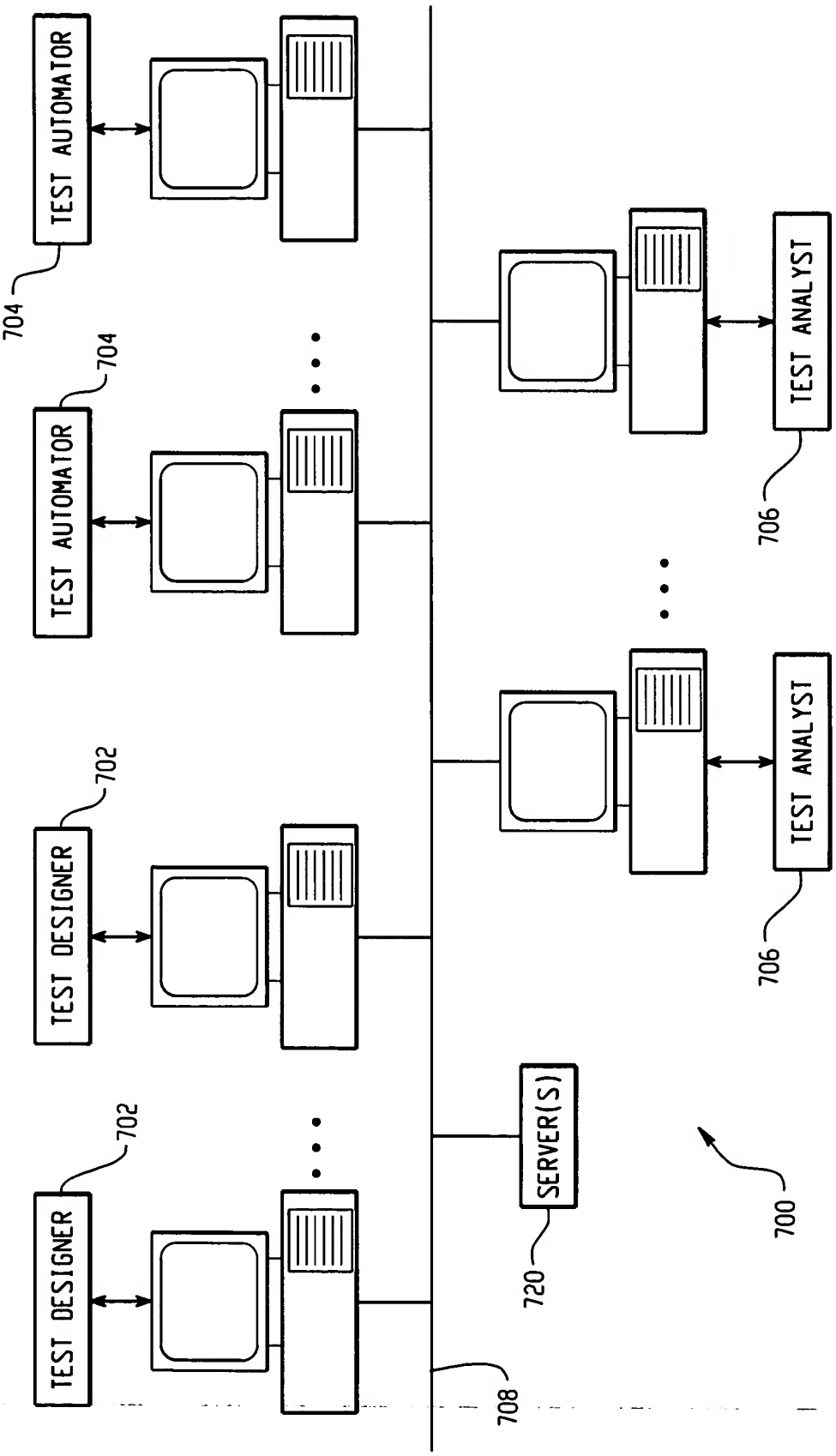
TEST AUTOMATOR
704
TEST AUTOMATOR
704
TEST ANALYST
706
TEST DESIGNER
702
TEST ANALYST
706
TEST DESIGNER
702
SERVER(S)
720
700
708

Fig. 19

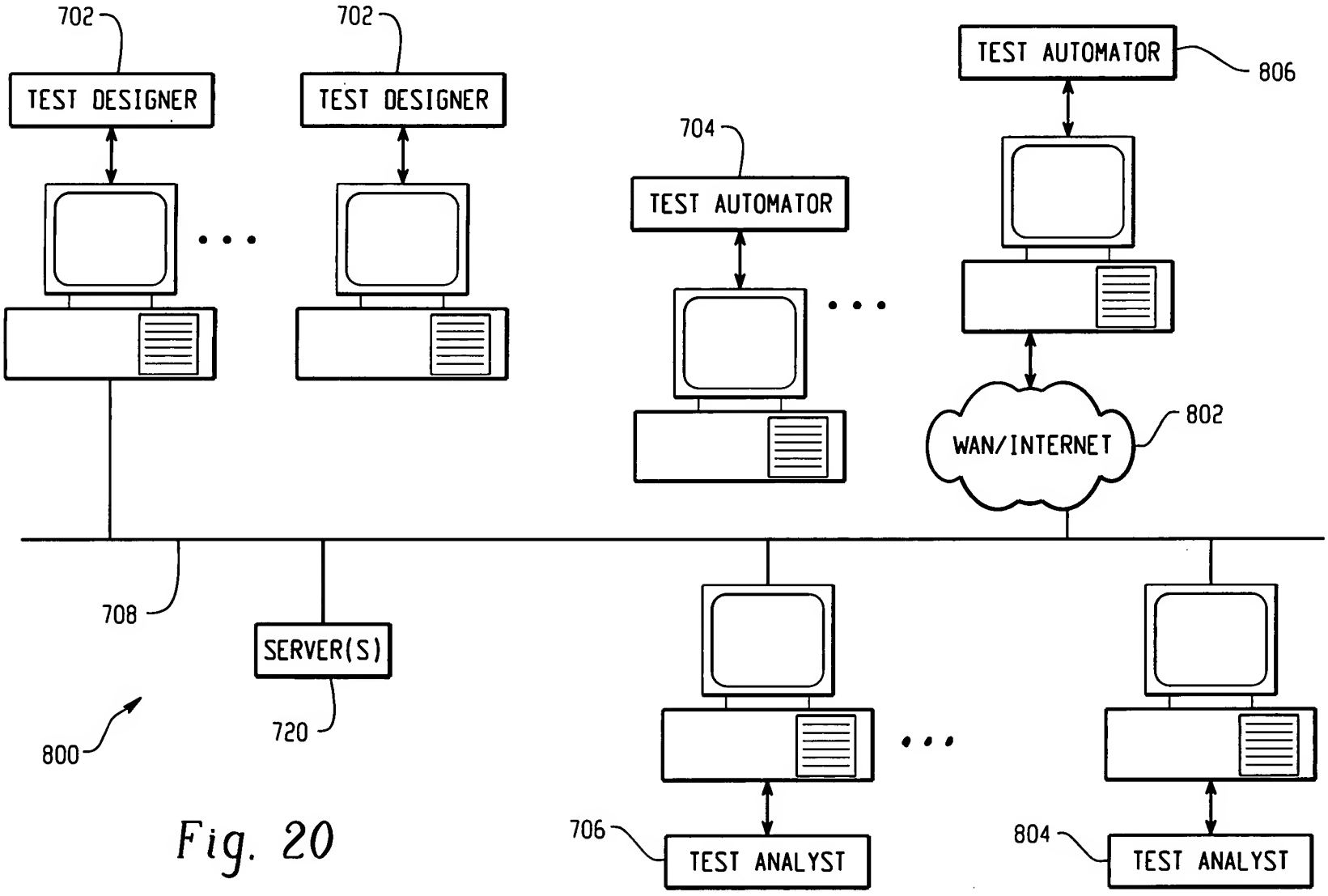
702
TEST DESIGNER
702
TEST DESIGNER
704
TEST AUTOMATOR
TEST AUTOMATOR
806
WAN/INTERNET
802
708
SERVER(S)
720
800
706
TEST ANALYST
804
TEST ANALYST

Fig. 20